



York County Solid Waste Disposal

BARRIERS AND SOLUTIONS TO C&D RECYCLING

YORK COUNTY SOLID WASTE: AT A GLANCE



- MSW Transfer Station:
120,000 tons/year
- Tire Collection: 700 tons/year
- Yard Waste: 5,000 tons/year
- Recycle Center:
16 collection Centers in County
- **C&D: 32,000 tons/year**
 - New 16 acre cell opened in February 2012
 - Estimated life of 18 years.

THE YORK COUNTY VISION

- ✖ We wanted to increase our C&D Recycling efforts!
- ✖ In 2010, I set a personal goal to recycle one new material each year from C&D.
- ✖ How? Understaffed, no funds to purchase processing equipment, what are the markets?
 - + We could capture the low hanging fruit!

QUESTIONS

1. Is there a market?
2. Staff needed?
3. Equipment needed?
4. Can we do this safely?
5. Do we have the space to do this?



CONCRETE/ASPHALT



- × **End Market:** Used as road base and fill within the landfill
- × **Staff:** Minimal, contract grinding services
- × **Equipment:** Dozer
- × **No Major Safety Concerns**
- × **Location:** Area adjacent to C&D Landfill

SHINGLES

- ✗ **End Market:** Hot Mix Asphalt (NC)
- ✗ **Staff:** Inmates remove trash. Operator loads once every 2 months.
- ✗ **Equipment:** Trac-Hoe
- ✗ **Location:** Area adjacent to the C&D Landfill. Compactor operator instructs the customer.



METAL



- × **End Market:** Scrap Yard
- × **Staff:** Operator and inmate
- × **Equipment:** Compactor and Trac-Hoe
- × **Safety:** Major concern on the working face. Limited
- × **Location:** Pile it to the side of the working face and collect when necessary.

THE NUMBERS!

Material	Tons Recycled	Volume (cy)	Airspace Value Saved	Lifespan saved (Days)	Processing Cost	Revenue	Material Savings
Concrete/ Asphalt	9723	8102.5	\$137,742.50	48.7	\$71,000		\$77,784
Shingles	579.5	2759.5	\$46,911.90	16.6			
Metal	70	155.6	\$2,644.44	0.9		\$14,000	

Total Airspace Value Saved	\$187,298.85
Total Lifespan saved (Days)	66.3
Total Revenue	\$14,000
Total Material Savings	\$77,784
Total Processing Cost	\$71,000
Total Value of C&D Recycling (3 years)	\$208,082.85



WHAT IS NEXT?
Carpet Recycling

CARPET RECYCLING

- ✖ York County was recently awarded a Solid Waste Reduction and Recycling Grant from SCDHEC in the amount of \$40,000 to begin a carpet recycling initiative.
 - + Retrofitting an existing metal building with a loading dock as a drop off and loading area for the waste carpet
 - + Provide a covered area at each convenience center for the collection of carpet from residents.

THE 5 QUESTIONS

- ✗ **End Market:** Plastics Recyclers. Not yet secured
 - + Can be made into new carpet, erosion control products, construction materials, auto plastics
- ✗ **Staff:** Minimal, loading carpet into trailer.
- ✗ **Equipment:** Forklift
- ✗ **Location:** Retrofitting an existing building



CARPET RECYCLING

- ✗ Accepting only dry residential carpet
 - + Commercial, rubber-backed, or tile carpeting will NOT be accepted
- ✗ Must maximize each trailer load; 15 tons
- ✗ Educate the carpet installers about our new initiative.
 - + Offer an incentive in the future?

CONTACT

Eric Rekitt

York County Solid Waste Disposal

Eric.rekitt@yorkcountygov.com

(803) 818-6475